

## May *P. corporis* and *P. copri* be related to UTI disease? Yes or no?

Dear Editor,

Urinary tract infections (UTI) are as bacterial infections, affecting millions of people every year worldwide. *Prevotella corporis* (*P. corporis*) and *P. Copri* are belongs to Prevotella genus as Gram-negative, anaerobic bacilli. *P. corporis* is present in the mouth and other sites of the human body.<sup>[1-3]</sup> *P. Copri* is present in human gut and has been isolated from rheumatoid arthritis.<sup>[4,5]</sup> It has to be said that there are many bacteria that are involved in UTI diseases either directly or indirectly.<sup>[6-8]</sup> Possibly there are many bacteria which are not identified at the present time, and maybe introduced in the future possibly *P. corporis* and *P. copri* are linked to UTI disease. Researches must be done in order to understand the fact. Why till now these bacteria has not been isolated from UT may be related to many reason such as, new introducing these bacteria in recent years, nonavailability of specific tests

in order to the identification of the microorganism, and perhaps they are unknown yet for many microbiologists across the World. There are different question around the question raised above. The best question is may *P. corporis* and *P. copri* linked to UTI or not? If yes what causes infection in the UT? Whether the infection is caused by *P. corporis* alone or with *P. copri* or even with other bacteria which are present in the UT. The further studies may hopefully clear different aspects of these black-pigmented bacteria in UTI. If the future studies by scientists and researchers are negative, that would be good news for all in particular for patients. In this Letter to the Editor, I would like to bring to your attention the point that I have mentioned in the past, that the role of *P. corporis* is not clear in oral diseases and in particular in nonoral diseases (i.e., UTI).<sup>[9]</sup> Still, the question remains about where it comes from into the mouth, gut actually?

What causes infection in the gut? Which infections is caused by *P. corporis* alone or *P. copri* or even with other bacteria. Anyway, the role of *P. corporis* and *P. copri* still unclear in UT. Thus, we have to look forward to see what is going on these unknown bacteria (*P. corporis*, *P. copri*) and their possible link in UTI anyway.

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#### Conflicts of interest

There are no conflicts of interest.

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#### References

1. Finegold SM, Strong CA, McTeague M, Marina M. The importance of black-pigmented gram-negative anaerobes in human infections. *FEMS Immunol Med Microbiol* 1993;6:77-82.
2. Finegold SM. Anaerobic infections in humans: An overview. *Anaerobe* 1995;1:3-9.
3. Tavana AM. Isolation of *P. corporis* from oral cavity: What is the role of this bacterium in the mouth and other parts of the human body?. *Indian J Dent Res* 2009;20:129.
4. Scher JU, Sczesnak A, Longman RS, Segata N, Ubeda C, Bielski C. *et al.* Expansion of intestinal *Prevotella copri* correlates with enhanced susceptibility to arthritis. *Elife* 2013;2:e01202.
5. Tavana AM. Which one may be linked with rheumatoid arthritis *Prevotella copri* or *Prevotella corporis* or both?. *Ann Trop Med Public Health*, in press in 2016.
6. Urinary Tract Infection. CDC. April 17, 2015. [Last accessed on 2016 Feb 6].
7. Kumar MS, Das AP. Molecular identification of multi drug resistant bacteria from urinary tract infected urine samples. Available from: HYPERLINK "http://www.ncbi.nlm.nih.gov/pubmed/27354209" \o "Microbial pathogenesis." *Microb Pathog*. 2016 Jun 25;98:37-44. doi: 10.1016/j.micpath.2016.06.029. [Epub ahead of print].
8. Farshad S, Anvarinejad M, Tavana AM. Molecular epidemiology of *Escherichia coli* strains isolated from children with community acquired urinary tract infections. *Afr J Microbiol Res* 2011;5:4476-83.
9. Tavana AM. Still the role of *Prevotella corporis* in oral and nonoral diseases is not clear?. *Ann Trop Med Public Health* [Epub ahead of print] Available from: <http://www.atmph.org/preprintarticle.asp?id=179125>. [Last accessed on 2016 May 3].

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